

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A method for establishing a mapping between internal metadata and external metadata, the method comprising:

reading, from a database, said internal metadata;

wherein said internal metadata is metadata that describes data, contained in the database;

generating and displaying a screen, wherein displaying the screen includes displaying the internal metadata, which was read from the database, in a grid having rows and columns, wherein dimensional metadata from said internal metadata is placed in the grid as row headings and/or column headings;

receiving from a user a selection of a portion of said grid, said selection indicating one or more cells of the grid;

in response to receiving from the user said selection,;

determining which internal metadata, displayed on said grid, corresponds to said one or more cells;

wherein the internal metadata that corresponds to the one or more cells is a subset of all internal metadata displayed in said grid; and

presenting to the user one or more user interface controls for receiving, from said user, a definition of external metadata;

wherein the definition of external metadata is for only said subset of internal metadata that corresponds to cells that were selected by said selection;

wherein the definition of external metadata specifies particular external metadata to associate with said subset of internal metadata;

wherein the definition of external metadata describes all data points within said selection;

receiving from said user, via the one or more user interface controls, said definition of external metadata, wherein said definition of external metadata describes all data points within said selection; and
creating a mapping between said selected internal metadata and said defined the particular external metadata.

2. (canceled)
3. (original) The method of claim 1, further comprising:
determining if the external metadata describing all data points within said selection is predefined; and
wherein if the external metadata describing all data points within said selection is predefined, said receiving from said user a definition of external metadata comprises:
presenting said user a list from which they may select an item of predefined metadata; and
receiving from said user a selection of an item of predefined metadata from said list.
4. (original) The method of claim 3, wherein said list is provided in a tree control.
5. (original) The method of claim 3, further comprising:
determining if syntax of the external metadata describing all data points within said selection is predefined; and
wherein if the external metadata describing all data points within said selection is not predefined, but syntax of the external metadata describing all data points within said selection is predefined, said receiving from said user a definition of external metadata comprises:
presenting said user with one or more dialog boxes in which they can specify external metadata to be created; and
receiving from said user a specification of external metadata to be created.

6. (original) The method of claim 5, wherein said presenting includes presenting said user with a dialog box in which they can specify an entity for said external metadata to be created.
7. (original) The method of claim 5, wherein said presenting includes presenting said user with a dialog box in which they can specify units for said external metadata to be created.
8. (original) The method of claim 5, wherein said presenting includes presenting said user with a dialog box in which they can specify a time period for said external metadata to be created.
9. (original) The method of claim 5, wherein said presenting includes presenting said user with a dialog box in which they can specify a scenario for said external metadata to be created.
10. (original) The method of claim 9, wherein a control for said dialog box is a tree control when an element button is selected and a text field when a custom button is selected.
11. (original) The method of claim 1, wherein said selection is one or more rows in said grid.
12. (original) The method of claim 1, wherein said selection is one or more columns in said grid.
13. (previously presented) The method of claim 1, wherein said selection is one or more individual cells in said grid, wherein said one or more individual cells do not comprise an entire row or an entire column.
14. (original) The method of claim 13, wherein preexisting mappings for rows or columns containing said selection are overwritten for said selected individual cells.
15. (original) The method of claim 1, further comprising:
receiving from said user a formula involving one or more data items in said grid;
creating a new row or column in said grid;
entering said formula into a cell in said new row or column; and

wherein said selection includes said cell.

16. (original) The method of claim 1, wherein said external metadata is Extensible Business Reporting Language (XBRL) metadata.

17. (original) The method of claim 1, wherein an external metadata source is specified using a schema manager.

18. (currently amended) An apparatus for establishing a mapping between internal metadata and external metadata, the apparatus comprising:

means for reading, from a database, said internal metadata;

wherein said internal metadata is metadata that describes data, contained in the database;

an internal metadata grid organizer;

wherein the internal metadata grid organizer is configured to generate and display a screen;

wherein the screen, which said internal metadata grid organizer is configured to generate, displays the internal metadata, which was read from the database, in a grid having rows and columns, wherein dimensional metadata from said internal metadata is placed in the grid as row headings and/or column headings;

a grid portion user selection receiver coupled to said internal metadata grid organizer to receive a seeded portion of a grid indicating internal metadata to be mapped to external metadata in an external system;

said grid portion user selection receiver being configured to receive from a user a selection of a portion of said grid, said selection indicating one or more cells of the grid;

means for determining, in response to said selection, which internal metadata, displayed on said grid, corresponds to said one or more cells;

wherein the internal metadata that corresponds to the one or more cells is a subset of all internal metadata displayed in said grid;

an external metadata user definition receiver coupled to said grid portion user selection receiver;

the external metadata user definition receiver being configured to, in response to said selection, present to the user one or more user interface controls for receiving, from said user, a definition of external metadata; wherein the definition of external metadata is for only said subset of internal metadata that corresponds to cells that were selected by said selection;

wherein the definition of external metadata specifies particular external metadata to associate with said subset of internal metadata;

wherein the definition of external metadata describes all data points within said selection;

the external metadata user definition receiver being configured to receive from said user, via the one or more user interface controls, said definition of external metadata; wherein said definition of external metadata describes all data points within said selection; and

an internal metadata-to-defined external metadata mapping creator coupled to said external metadata user definition receiver.

19. (canceled)
20. (original) The apparatus of claim 18, further comprising:
a predefined external metadata selection determiner coupled to said external metadata user definition receiver; and
wherein said external metadata user definition receiver includes:
a predefined metadata list presenter; and
a predefined metadata list item receiver coupled to said predefined metadata list presenter.
21. (original) The apparatus of claim 20, further comprising:
a predefined external metadata syntax determiner coupled to said external metadata user definition receiver; and

wherein said external metadata user definition receiver includes:

- an external metadata dialog box presenter; and
- an external metadata specification receiver coupled to said external metadata dialog box presenter.

22. (original) The apparatus of claim 18, further comprising:

- a user formula receiver;
- a new row or column creator coupled to said user formula receiver and to said internal metadata grid organizer;
- a new row or column user formula placer coupled to said new row or column creator and to said user formula receiver.

23. (currently amended) An apparatus for establishing a mapping between internal metadata and external metadata, the apparatus comprising:

- means for reading, from a database, said internal metadata;
- wherein said internal metadata is metadata that describes data contained in the database;
- means for generating and displaying a screen;
- wherein the means for displaying the screen includes means for displaying the internal metadata, which was read from the database, in a grid having rows and columns, wherein dimensional metadata from said internal metadata is placed in the grid as row headings and/or column headings;
- means for receiving from a user a selection of a portion of said grid, said selection indicating one or more cells of the grid;
- means for determining, in response to said selection, which internal metadata, displayed on said grid, corresponds to said one or more cells;
- wherein the internal metadata that corresponds to the one or more cells is a subset of all internal metadata displayed in said grid;
- means for presenting to the user, in response to said selection, one or more user interface controls for receiving, from said user, a definition of external metadata; wherein the definition of external metadata is for only said subset of internal metadata that corresponds to cells that were selected by said selection;

wherein the definition of external metadata specifies particular external metadata to associate with said subset of internal metadata;
wherein the definition of external metadata describes all data points within said selection;

means for receiving from said user, via the one or more user interface controls, said definition of external metadata, wherein said definition of external metadata describes all data points within said selection; and
means for creating a mapping between said selected internal metadata and said defined the particular external metadata.

24. (canceled)
25. (original) The apparatus of claim 23, further comprising:
means for determining if the external metadata describing all data points within said selection is predefined; and
wherein if the external metadata describing all data points within said selection is predefined, said means for receiving from said user a definition of external metadata comprises:
means for presenting said user a list from which they may select an item of predefined metadata; and
means for receiving from said user a selection of an item of predefined metadata from said list.
26. (original) The apparatus of claim 25, wherein said list is provided in a tree control.
27. (original) The apparatus of claim 25, further comprising:
means for determining if syntax of the external metadata describing all data points within said selection is predefined; and
wherein if the external metadata describing all data points within said selection is not predefined, but syntax of the external metadata describing all data points within said selection is predefined, said means for receiving from said user a definition of external metadata comprises:

means for presenting said user with one or more dialog boxes in which they can specify external metadata to be created; and

means for receiving from said user a specification of external metadata to be created.

28. (original) The apparatus of claim 27, wherein said means for presenting includes means for presenting said user with a dialog box in which they can specify an entity for said external metadata to be created.

29. (original) The apparatus of claim 27, wherein said means for presenting includes means for presenting said user with a dialog box in which they can specify units for said external metadata to be created.

30. (original) The apparatus of claim 27, wherein said means for presenting includes means for presenting said user with a dialog box in which they can specify a time period for said external metadata to be created.

31. (original) The apparatus of claim 27, wherein said means for presenting includes means for presenting said user with a dialog box in which they can specify a scenario for said external metadata to be created.

32. (original) The apparatus of claim 31, wherein a control for said dialog box is a tree control when an element button is selected and a text field when a custom button is selected.

33. (original) The apparatus of claim 23, wherein said selection is one or more rows in said grid.

34. (original) The apparatus of claim 23, wherein said selection is one or more columns in said grid.

35. (original) The apparatus of claim 23, wherein said selection is one or more individual cells in said grid.

36. (original) The apparatus of claim 35, wherein preexisting mappings for rows or columns containing said selection are overwritten for said selected individual cells.
37. (original) The apparatus of claim 23, further comprising:
 - means for receiving from said user a formula involving one or more data items in said grid;
 - means for creating a new row or column in said grid;
 - means for entering said formula into a cell in said new row or column; and wherein said selection includes said cell.
38. (original) The apparatus of claim 23, wherein said external metadata is Extensible Business Reporting Language (XBRL) metadata.
39. (original) The apparatus of claim 23, wherein an external metadata source is specified using a schema manager.
40. (previously presented) The method of Claim 1 wherein:
 - the internal metadata describes data, contained in the database, from which a report is to be generated; and
 - the screen includes tools for designing the report.
41. (previously presented) The apparatus of Claim 18 wherein:
 - the internal metadata describes data, contained in the database, from which a report is to be generated; and
 - the screen includes tools for designing the report.
42. (previously presented) The apparatus of Claim 23 wherein:
 - the internal metadata describes data, contained in the database, from which a report is to be generated; and
 - the screen includes tools for designing the report.